



Solutions for Commercial Vessels
Solutions for Offshore Platforms & Rigs
Solutions for Offshore Support Vessels
Solutions for Passenger Ships & Ferries
Solutions for Pleasure Boats & Yachts
Solutions for Special Vessels

Generator Maintenance
Services Agreements
Control System Upgrade
Battery Chargers
Spareparts
Consumables





POWER IS WINNING

WHY ELECTRONIL !

We are a group of fearless thinkers, driven to empower people all over the nation – with reliable, revolutionary generators, power systems and power solutions.

We are nearly 30 years in the Egyptian markets, and only getting better. For the last two decades, we have engineered and shaped the future, redefining what power means to people's lives, careers and lifestyles.

We exist for one reason: to move you forward.



WE WHAT WE DO

995

لم تختار منتجات إلكتروني! !

نحن مجموعة من المفكرين لا يخافون الإبتكار، مدفوعون بشغف تمكين عملائنا في جميع أنحاء البلاد - بمحطات توليد طاقة إعتيادية وموثوقة، بالإضافة إلى أنظمة وحلول متكاملة للطاقة.

لدينا ما يقرب من ٣٠ عاماً من الخبرة في الأسواق المصرية، ونعمل في تقدم دائم. على مدار العقدين الزميين الماضيين، قمنا بتصميم وصياغة المستقبل، وإعادة صياغة المعنى الحقيقي للطاقة الكهربائية لحياة عملائنا وأعمالهم وأنماط حياتهم.

نعمل بجهد لسبب واحد: **للحفاظ على تقدمكم.**

WE ARE ELECTRONIL.

Our Capabilities



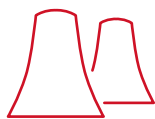
Power Generation Systems
Design and Supply



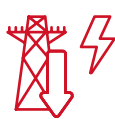
Complex Standby Systems,
Synchronization and Load
Sharing Including Multiple
Utility Grid



Parallel with Utility Grid
Operation



Power Stations



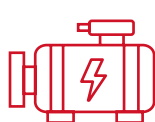
Mains, Feeder and Load
Shedding Control Systems



BMS, SCADA and Remote
Monitoring Systems



Low-Voltage Panel Building



Engine Driven
Compressors and Pumps



Marine Certified Systems



Water Pump and Dredging
Control Systems



Design, Supply, Install,
Commissioning, Startup
and Service



Standard, Sophisticated
and Bespoke Control
Systems



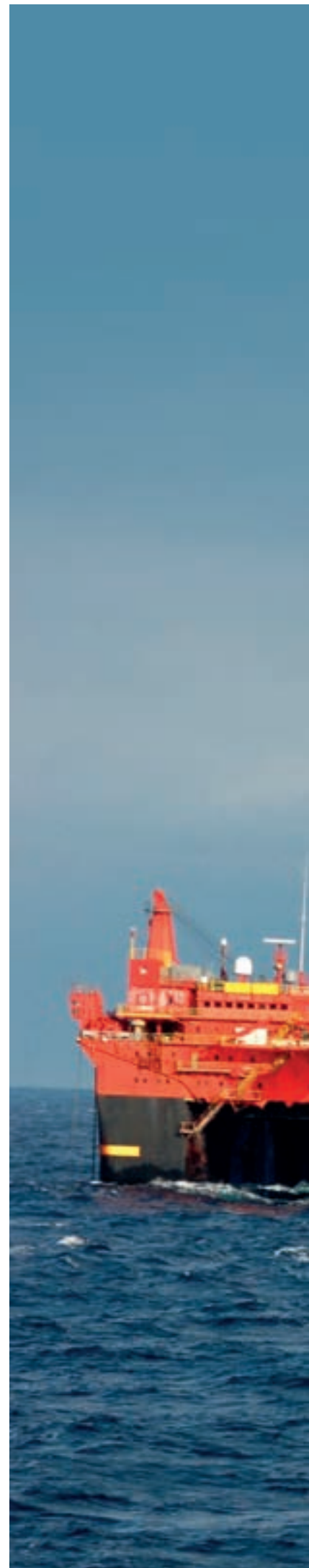
Design



Engineering



Training and Technical
Support





OUR STORY

A Magnificent force in power solutions since 1995, **ELECTRONIL POWER SOLUTIONS** is committed to reliable, intelligent products, advanced engineering and responsive after-sale support.

Over the years, we have amplified our well-known reputation to be a leader known for its premium range of generator-sets and control systems. Together, with building on the legacy of a leading brand, to create one of the largest generator-set and control systems providers in Egypt - and continued an unwavering focus on reliable power systems and innovation.

We deliver integrated industrial power systems for emergency, prime and continuous applications throughout whole Egypt—from data centers and hospitals to water treatment and hospitality facilities. With a deep understanding of your industry, we excel in designing customized power systems that simplify your most complex challenges.

من نحن

تُعد شركة إلكترونيال لحلول الطاقة قوة رائدة في مجالات حلول الطاقة الكهربائية منذ عام ١٩٩٥، ومنذ ذلك الحين ونحن نلتزم بإمداد عملائنا بمنتجات موثوقة وذكية ومتطورة هندسياً بالإضافة إلى دعم سريع الاستجابة لخدمة ما بعد البيع والصيانة.

على مر الأعوام، ضاعفنا من سمعتنا المعروفة لكوننا من أكبر الكيانات الرائدة والمعروفة بمنتجاتها المتميزة من وحدات توليد الطاقة الكهربائية وأنظمة التحكم والحماية والتشغيل. بالإضافة إلى، واستناداً إلى إرث علامة تجارية رائدة، قمنا بإنشاء واحد من أكبر مزودي الأسواق المصرية بأنظمة الطاقة المتكاملة وأنظمة تحكم وتشغيل وحماية إعتمادية وموثوقة على مستوى جمهورية مصر العربية - واستمر التركيز المستمر على إبتكار أنظمة طاقة متكاملة وموثوقة ومتطورة.

نقوم بتقديم أنظمة توليد طاقة صناعية متكاملة لتطبيقات الطوارئ والمحطات الرئيسية والطاقة المستمرة في جميع أنحاء جمهورية مصر العربية - من مراكز المعلومات والمستشفيات إلى محطات معالجة مياه الشرب والصرف الصحي والفنادق. بدراسة وفهم عميق لمجال عملك، نتميز في تصميم أنظمة طاقة متكاملة ومتخصصة والتي تعمل على تبسيط التحديات الأكثر تعقيداً التي يمكن أن تقابلها.



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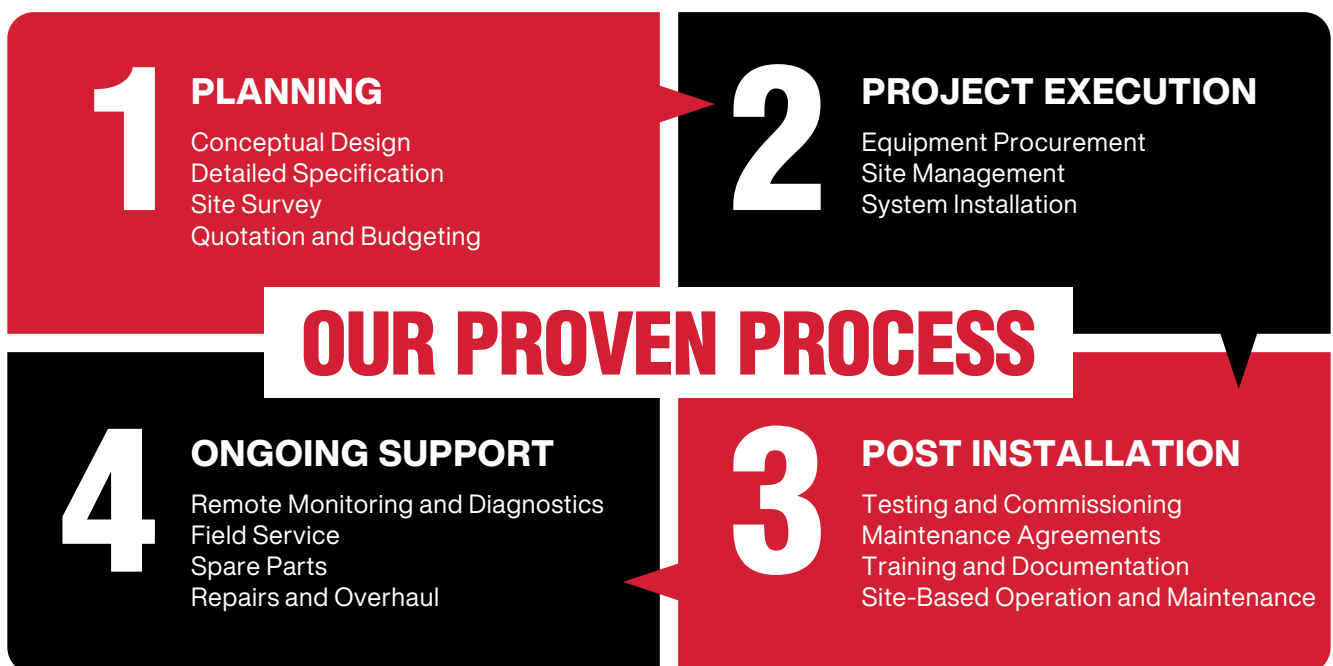
TOTAL SYSTEM INTEGRATION

Everything works together,
Just as it should.

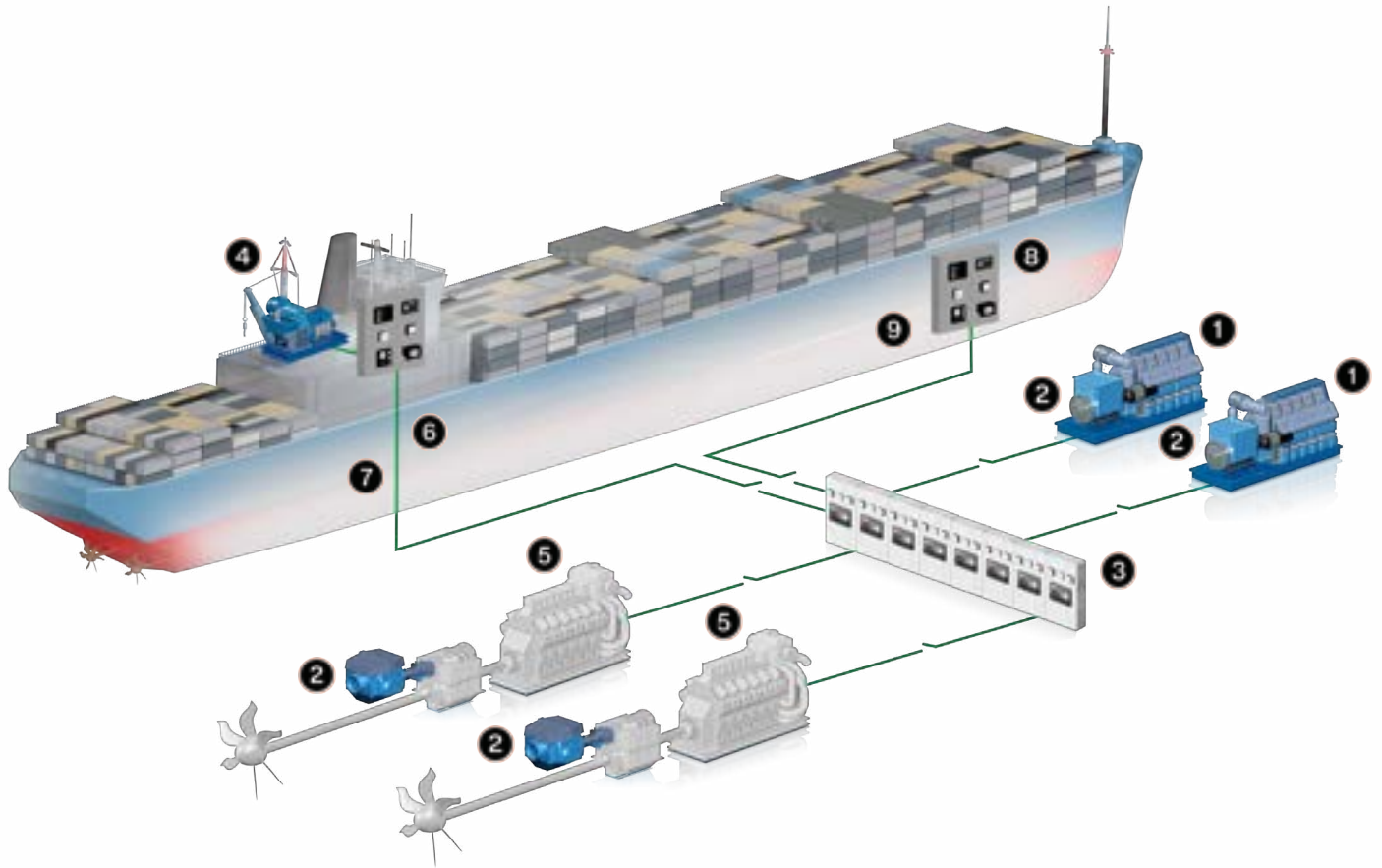
A Power System is only as good as the parts that define it. That's why we engineer every detail down to the last bolt. From generators and power transfer switches to paralleling systems and switchgear and controllers, everything works together seamlessly. Because we design, engineer and test it that way.

And that's the **ELECTRONIL** Difference.

Good news: There is more, behind that power system, there is a team of dedicated engineers that focuses on every element-generators, power transfer switches, switchgears and control systems — to be sure that the system you get is the system you need. You will know that your project is supported by an expert team, customized to your exact needs, brought in on budget and on time.



From spec to start-up to service, **WE DO IT ALL.**



TOTAL SYSTEM INTEGRATION

- | | | |
|---|---|--|
| <p>1 ENCP 2x MARINE SERIES ENGINE CONTROL SYSTEMS
Built with Marine Certified Components for Generator Drive Engines Controls.</p> | <p>4 ENCP 7x MARINE SERIES AMF CONTROL SYSTEMS
Built with Marine Certified Components for Emergency Switchboard / Generator.</p> | <p>7 ENCP 2x MARINE SERIES ENGINE CONTROL SYSTEMS
Built with Marine Certified Components for Crane, Winch and Pumps Controls.</p> |
| <p>2 ENCP 3x MARINE SERIES GENSET CONTROL SYSTEMS
Built with Marine Certified Components for Power Generators Controls.</p> | <p>5 ENCP 2x MARINE SERIES ENGINE CONTROL SYSTEMS
Built with Marine Certified Components for Vessel Main Engines Controls.</p> | <p>8 ENCP 1x MARINE SERIES MOTOR CONTROL SYSTEMS
Built with Marine Certified Components for Vessel Anchor Controls.</p> |
| <p>3 ENCP 9x MARINE SERIES SYNCH. CONTROL SYSTEMS
Built with Marine Certified Components for Main Switchboard Controls.
(Synchronizing & Load-Sharing)</p> | <p>6 ENCP 1x MARINE SERIES MOTOR CONTROL SYSTEMS
Built with Marine Certified Components for Electric Stern Thrusters Controls.</p> | <p>9 ENCP 1x MARINE SERIES MOTOR CONTROL SYSTEMS
Built with Marine Certified Components for Electric Bow Thrusters Controls.</p> |

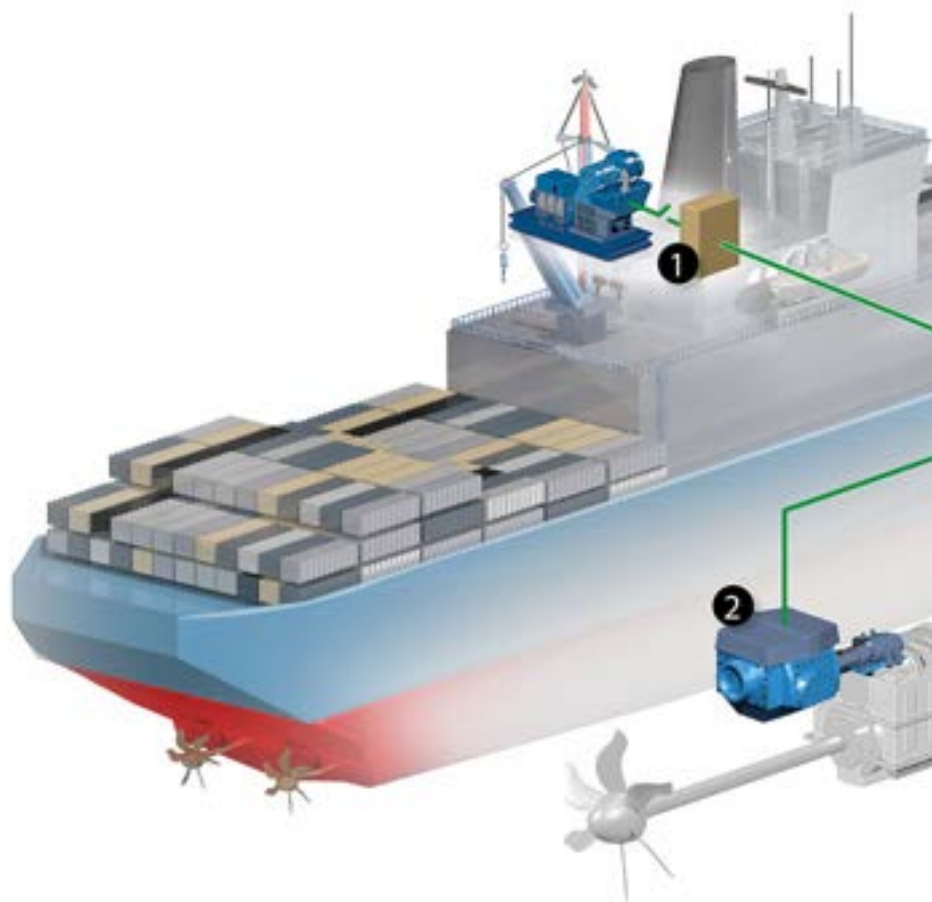


MARINE CERTIFIED

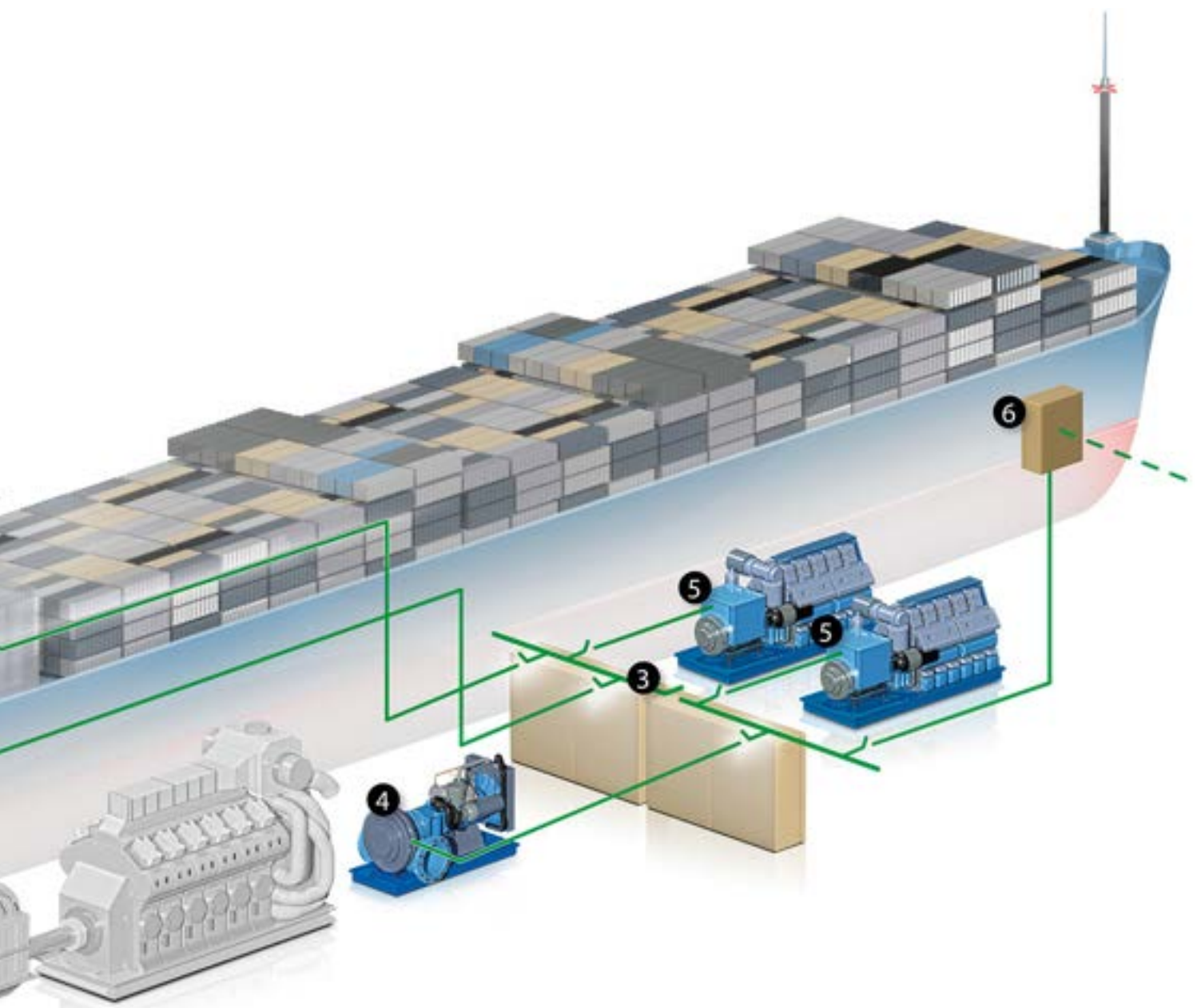
Solutions for Commercial Vessels.

ELECTRONIL has become a preferred power solutions provider to the biggest operators in the market not just because of our innovative, safe and reliable technology but because of our commitment in guiding you through all phases of your project, *from specification to start-up, configuration, commissioning and service, **WE DO IT ALL.***

1. Emergency Generator.
2. Shaft Generator.
3. Main Switchboard.
4. Turbine Generator.
5. Generator Set 1 & 2.
6. Shore Connection.



ELECTRONIL's Flexible product platform covers the full range of application possibilities. We're available to assist you and ensure you invest in and implement the best control system for your application.



MARINE CERTIFIED

Solutions for Offshore Platforms and Rigs.

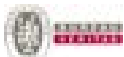
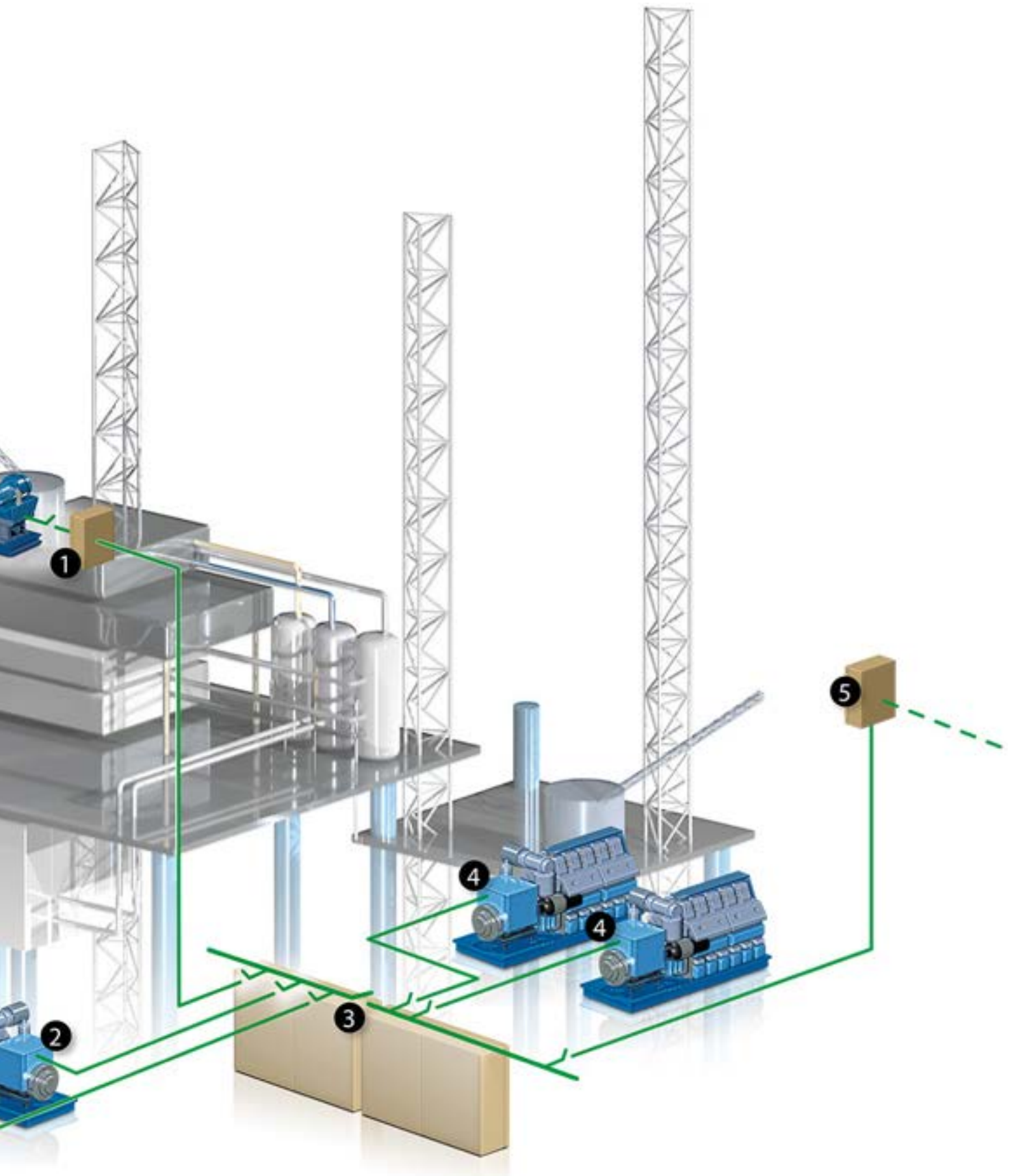
ELECTRONIL's Dedicated and Experienced Engineers and Technicians has a proven record of providing full customer satisfaction for complex offshore applications.

Tried and tested to meet and surpass offshore standards, ELECTRONIL's quality solutions for applications at offshore vessels and onshore/offshore rigs stand out for safety and reliability. Applying our technology incorporating fully automatic systems for stable operation, our specialists aim for record time commissioning to limit downtime and cut installation costs.

We provide our customers with specifications, project specific documentation and parameter lists including check of customer's drawings.

1. Emergency Generator.
2. Generator Set 1 & 2.
3. Main Switchboard.
4. Generator Set 3 & 4.
5. Shore Connection.





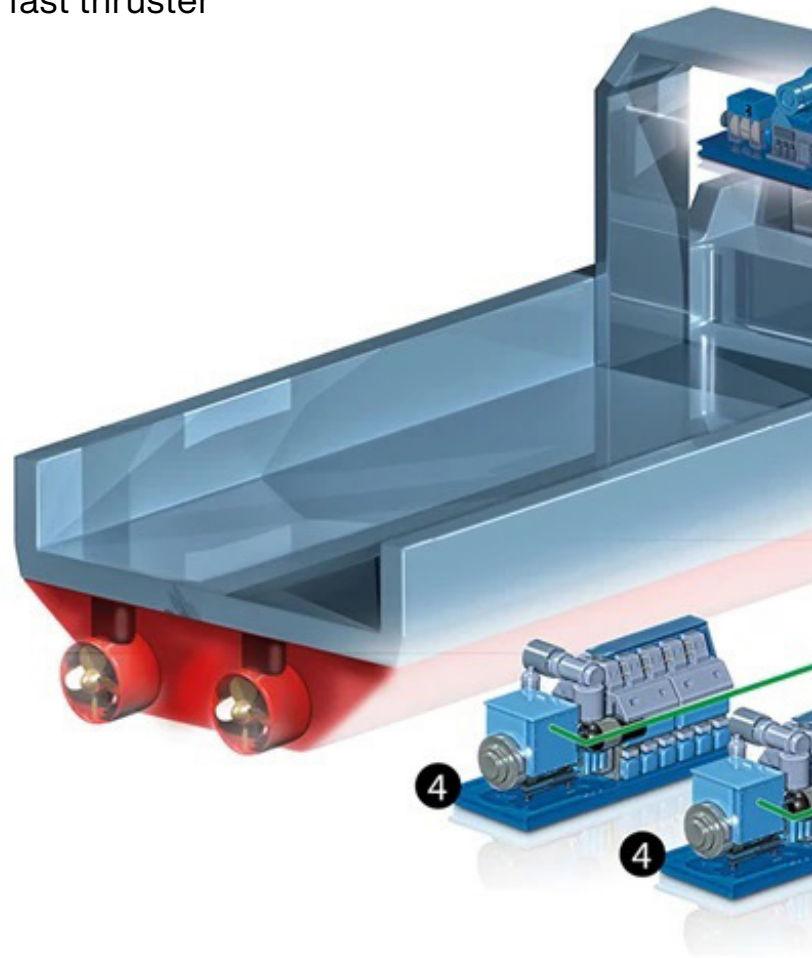
MARINE CERTIFIED

Solutions for Offshore Support Vessels.

ELECTRONIL is a market leader in offshore applications for diesel electrical drives and switchboards designed for dynamic positioning operation.

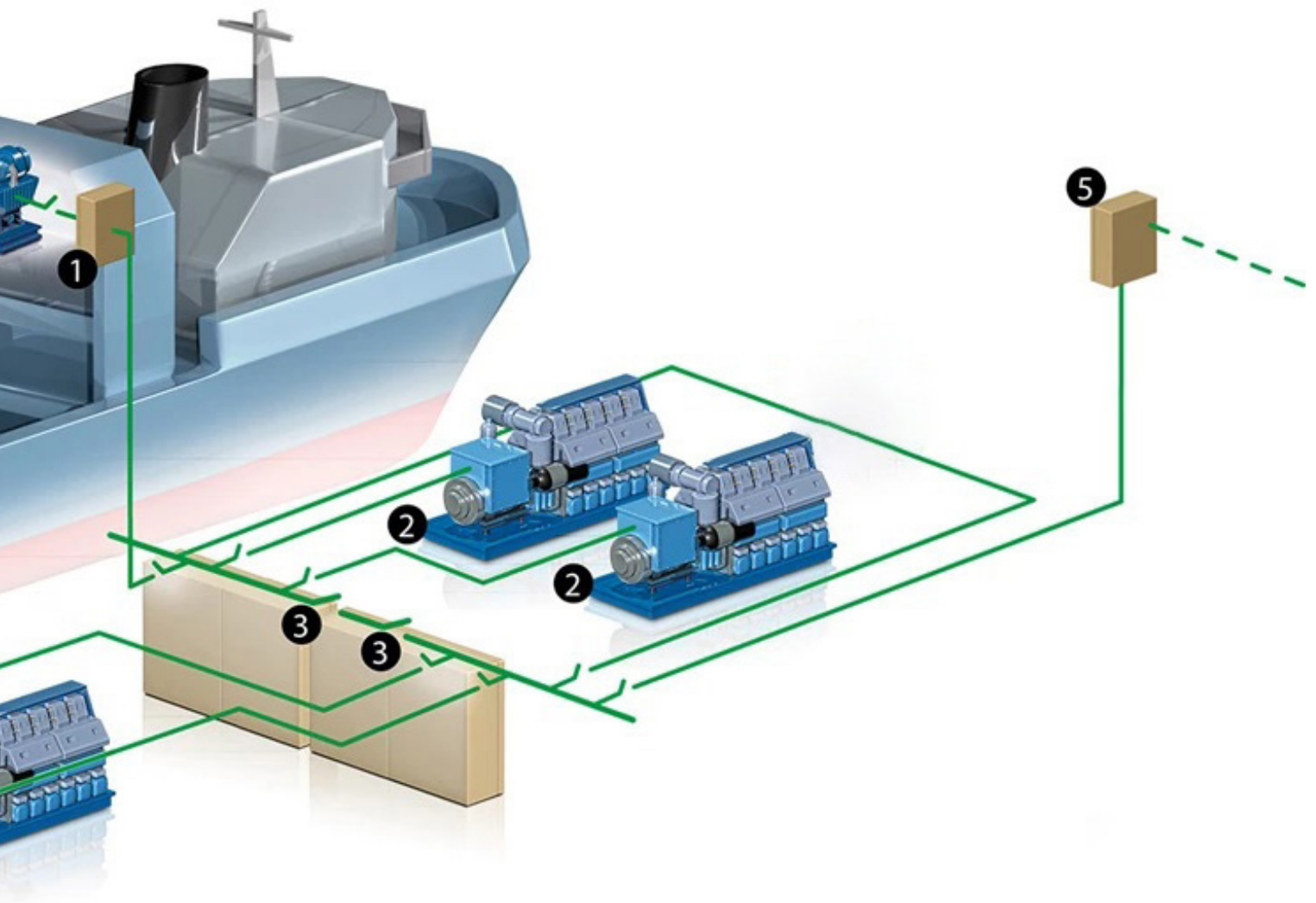
We specialize in optimizing electrical power management systems to make applications more efficient. Our reliable and fuel-optimized solutions are available, even with a closed bus tie breaker, just as our dynamic load sharing deviation protection and fast thruster load reduction are state-of-the-art.

1. Emergency Generator.
2. Generator Set 1 & 2.
3. Main Switchboard.
4. Generator Set 3 & 4.
5. Shore Connection.



Working with our dedicated project department for system solutions, you will soon experience how ELECTRONIL is more than a partner. Our know-how, experience and expertise guarantee advanced application solutions – quality-tested beyond marine standards.

ELECTRONIL's Power Management Solutions integrates blackout prevention providing you a safe and reliable solution.



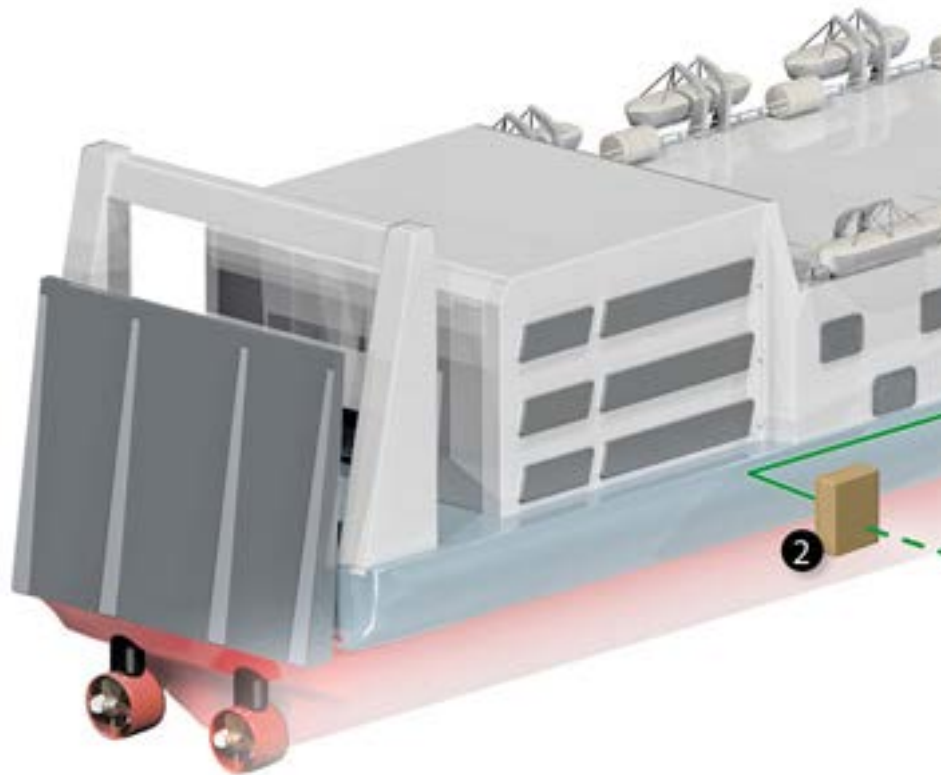
MARINE CERTIFIED

Solutions for Passenger Ships and Ferries.

Fully commissionable without interrupting commercial operations, the ELECTRONIL Power Control Solutions are the innovative, safe and reliable choices for ferry route operators, passenger ships and their crews. We are committed to guide you through all phases of your project, *from specification to start-up, configuration, commissioning and service, **WE DO IT ALL.***

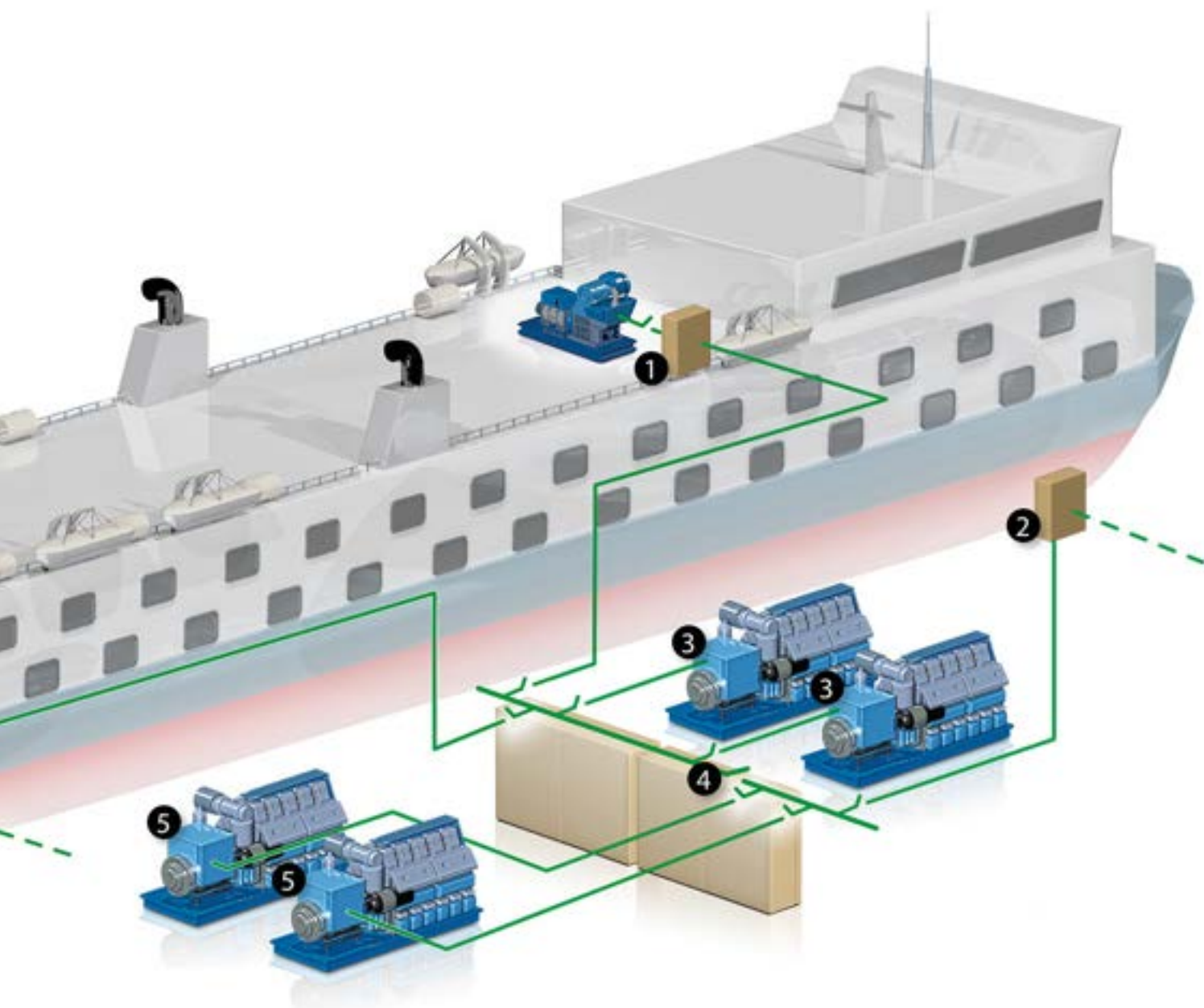
ELECTRONIL's Flexible Power Control Solutions contain leading technology genset controllers and an exhaustive portfolio of switchboard equipment.

1. Emergency Generator.
2. Generator Set 1 & 2.
3. Main Switchboard.
4. Generator Set 3 & 4.
5. Shore Connection.



Advanced load-dependent start/stop, long-time parallel operation on diesel/shaft generators reduces fuel consumption, along with preventive maintenance alarms make day-to-day operations easy and intuitive for the crew.

Everything can be fully monitored and controlled on graphical touch screens.



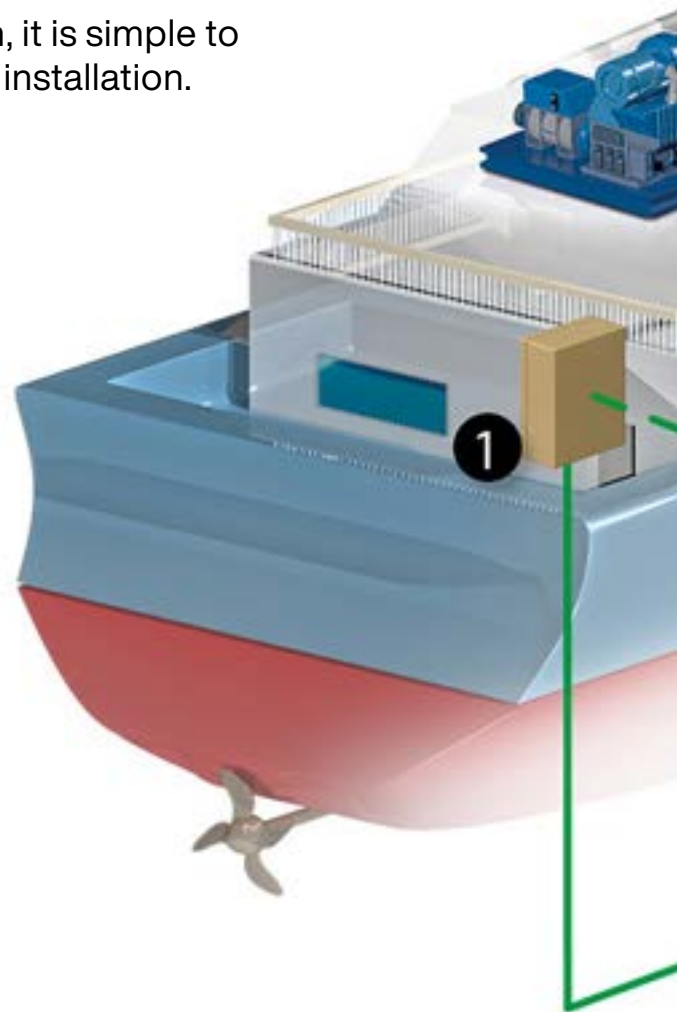
MARINE CERTIFIED

Solutions for Pleasure Boats and Yachts.

Maximizing accommodation space is a primary challenge in contemporary yacht construction.

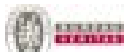
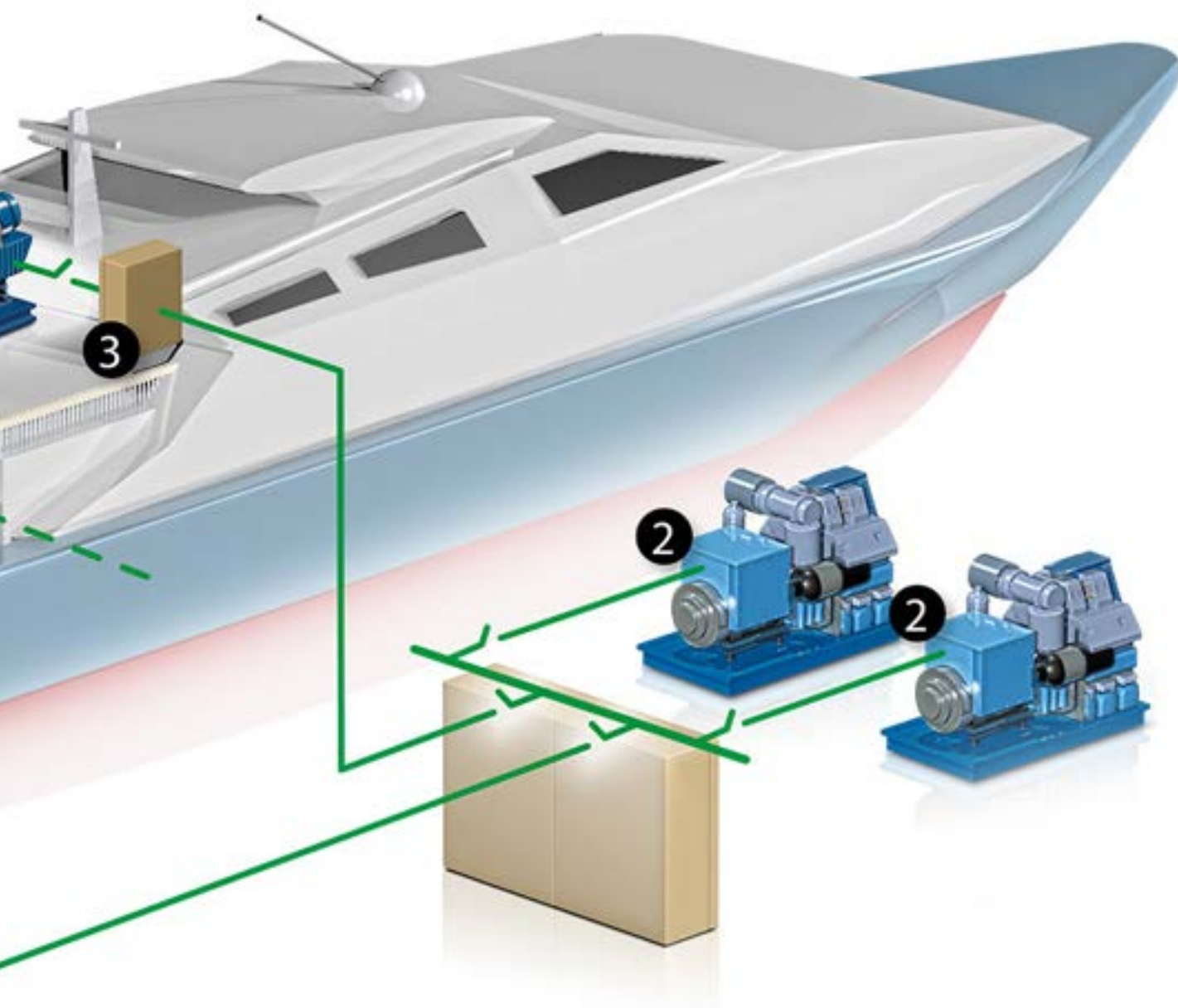
Understanding the need to optimize engine rooms and electrical switchboards, ELECTRONIL's control systems have been designed to fit the smallest switchboards and require no complicated PLCs.

With high levels of flexibility and configuration, it is simple to add features and functionality after hardware installation.



1. Emergency Generator.
2. Generator Set 1 & 2.
3. Shore Connection.

Utilizing advanced power management calculations and redundant communication lines, our solutions generate safe, optimal and intuitive operation. Stressing how correct system handling and operation by educated personnel optimizes fuel costs and maintenance, we also offer comprehensive onsite training for your crew.



MARINE CERTIFIED

Solutions for Special Vessels.

With a record of more than 25 years of proven experience and know-how, ELECTRONIL Engineers and Technicians have the experience and competences to give consultancy advice on external systems interfacing with ELECTRONIL equipment.

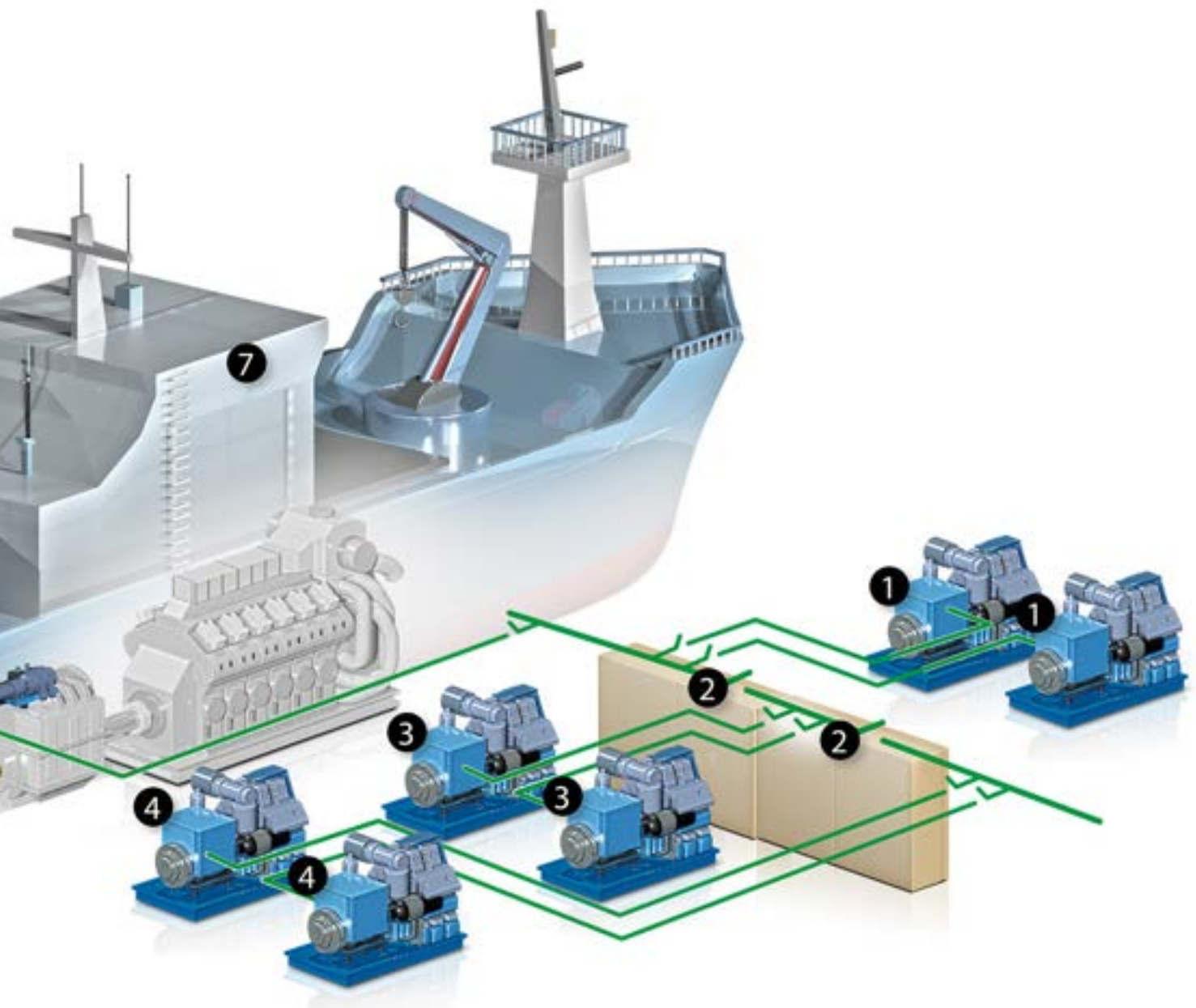
Catering to the particular needs of special vessels, ELECTRONIL is capable to develop solutions with integrated control concepts that bolster customer requirements for safe and accurate operation.

1. Generator Set 1 & 2.
2. Main Switchboard.
3. Generator Set 3 & 4.
4. Generator Set 5 & 6.
5. Shaft Generator.
6. Propulsion controls.



Getting it right from the start, we advise customers with specifications, project-specific documentation and parameter lists including check of customer drawings.

Developed with environmental and longer-life advantages for valuable equipment, more often than not these solutions are not just customized but cost-efficient alternatives to standard control systems.



MARINE CERTIFIED

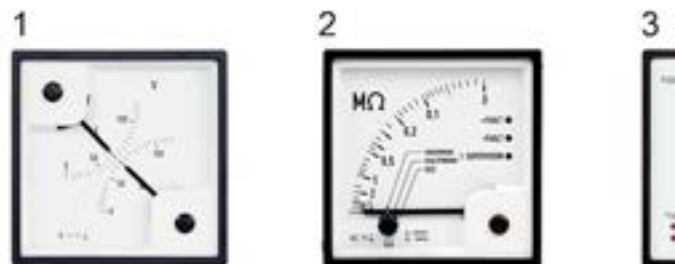
Switchboard Equipment.

Good logistics are crucial to maintaining competitive advantages.

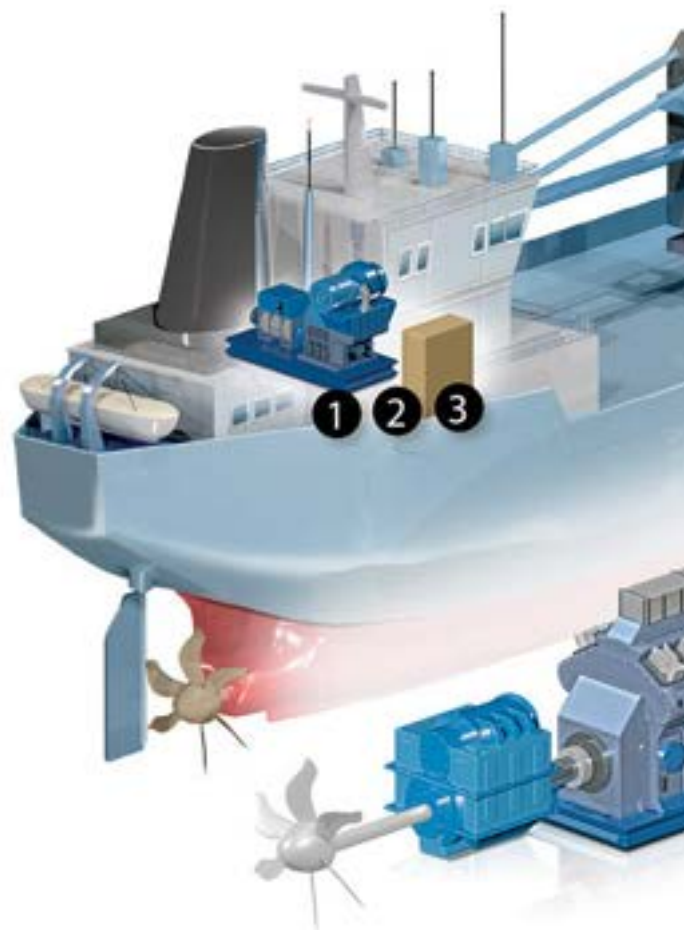
We customize scales and colors to customer specifications and deliver in no time, making an extra effort to ensure that our products reach their destination in record time, undamaged and ready for fast and easy commissioning and subsequent operation.

The main switchboard and a number of sub distribution switchboards form the electrical central nervous system of the ship. Because they are critical to power supply, control and system monitoring, instrument robustness is among the most important quality parameters.

1. Double Voltage/Frequency Meter.
2. AC/DC Insulation monitor.
3. Multi-Function Sync. Check Relay.
4. Multi-Transducer.
5. Measuring Transformers.



Main and Emergency Switchboard Equipment





ments.

4

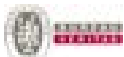
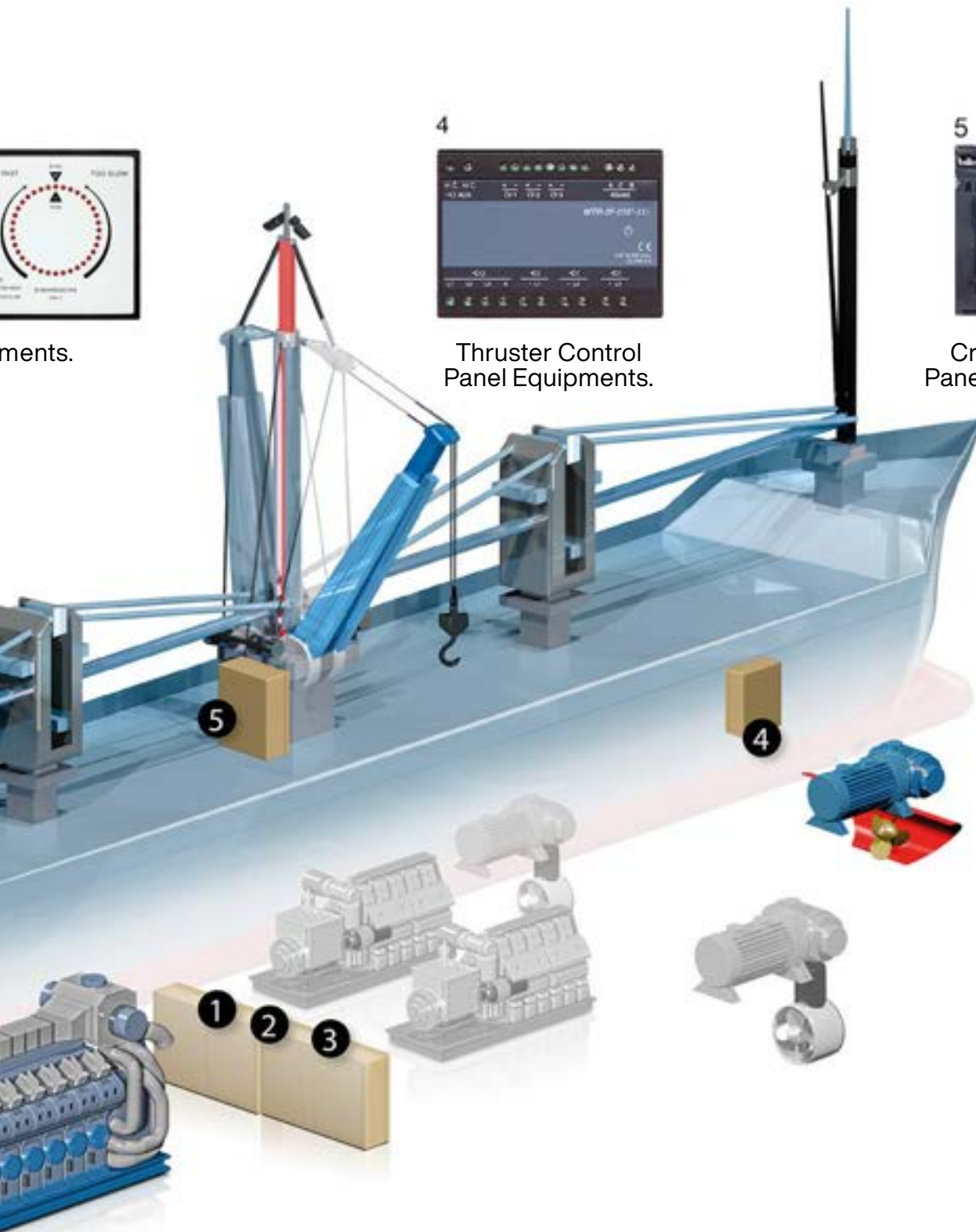


Thruster Control Panel Equipments.

5



Crane Control Panel Equipments.



ELECTRONIL PARALLELING SWITCHGEARS

TOTAL INTEGRATION,
From Top To Bottom.

When it comes to paralleling systems, we offer 100% integration.

Our **ELECTRONIL Paralleling Switchgears** Designed, Engineered and Factory-Tested as a complete system, rather than built from parts from multiple manufacturers like some competitive products.

Comprised of our **ENCP 9 Series Paralleling Systems**, and **EBC Series Battery Chargers**. The **ELECTRONIL Paralleling Switchgears** delivers dependable power across multiple applications. Combine that with our extensive network of sales and service technicians, and you've got what everyone wants:

PEACE OF MIND.

Discover more at
electronil.com/paralleled_power_systems





ENCP 8.1 GENSET 2

ELECTRONIL POWER SOLUTIONS

ENCP X

ELECTRONIL POWER SOLUTIONS

ELECTRONIL POWER SOLUTIONS

ENCP 9.1 GENSET 3

ELECTRONIL POWER SOLUTIONS



THE BENEFITS OF PARALLELING GENERATORS

Maximize Your System's Flexibility.

While it may be common for a facility to install a single large generator to meet its power needs, paralleling two or more generators offers a number of practical benefits and advantages over a single-generator system.

1. REDUNDANCY

The redundancy provided by the paralleling of two or more generators delivers greater reliability and flexibility than a single generator can provide. In critical applications, having more than one generator connected to the bus at all times ensures continuous generator power in the unlikely event that a generator fails.

Discover more at
electronil.com/paralleled_power_systems

2. EFFICIENCY

Instead of one large generator that might operate at an inefficiently low kW, several small generators can be paralleled together and turned on and off as necessary to efficiently support the varying demands of the load.

In situations where your load needs require one genset, you'll run more efficiently. And that kind of efficiency can result in big savings. Because our **ENCP 9 Series** control systems automatically turns off any generators in your system when needs are low, you'll benefit from immediate fuel savings and reduce running time for greater generator longevity.



ERATORS.

ENCP SYNC

3. COST-EFFECTIVE

In many cases, paralleling two or more gensets to produce the same output as a larger single unit results in significant cost savings.

For example: you can **save up to 20%** when **paralleling three 500 kW units** compared to **one 1500 kW unit**.

5. SPACE CONSTRAINTS

By using gensets with smaller footprints instead of one larger unit, the Paralleled Generators System provides greater location flexibility. The multiple units can be placed where a single genset won't fit, so space is used more efficiently. And because the weight of multiple units can be distributed, rooftop installation is even possible - something you simply can't do with many large single-generator sets.

4. POWER REQUIREMENTS

If the largest available generator is too small to meet your power requirements, two or more generators can be paralleled to provide the necessary power.

6. FUTURE GROWTH

A Paralleled Generators System can be designed to add additional generators as your facility's load requirements expand.

Purchase the Paralleled Generators System that fits your budget today. And, in the future, it can easily expand as your needs and budget allow. That way, you'll never have to worry about replacing a system you've outgrown.

ELECTRONIL CONTROL PANELS.

The Smart Choice for Reliable Power Systems.

Control Systems are the brains of a power system. They continuously monitor and manage operating conditions to ensure the reliability, flexibility and performance of the equipment as well as protect it from damage. We design and manufacture every detail of all ENCP Series Control Systems to ensure dependability, ease-of-use, safety and seamless integration with the rest of our equipment.

Our power equipment is used in a wide variety of applications, each of which places unique demands and challenges on its power systems, so we design our Control Systems to be extremely versatile and customizable.

Each one features programmable I/O modules to support customization and is designed to communicate and interoperate with these advanced building management systems (BMS).

ENCP MARINE SERIES CONTROL SYSTEMS

Available to support either single generator or parallel operation, our ENCP Control Systems are easy to operate and provide dependable Motor, Engine and Generator controls, operating information and system diagnostics.

ENCP 1 Series	Manual and auto start control systems for vessel's motors, cranes and pumps.
ENCP 2 Series	Manual and auto start control systems for vessel's main engines.
ENCP 3 Series	Single manual and auto start control systems for vessel's power generators.
ENCP 7 Series	Automatic mains failure control systems for emergency switchboard.
ENCP 9 Series	Single/multiple synchronizing and load sharing genset control systems.

EBC SERIES BATTERY CHARGERS

EBC 1xx Series	Automatic enclosed 12V battery chargers.
EBC 2xx Series	Automatic enclosed 24V battery chargers.

PARALLELING SWITCHGEAR CONTROLS

Each ELECTRONIL Paralleling Switchgear Solution is developed to meet your specific needs, and the control systems are programmed to your exact specifications. ELECTRONIL Deploys fault-tolerant programming and provides an intuitive user interface with real-time system information to enable better operational decisions.

ENCP.9.1

ELECTRONIL POWER SOLUTIONS

GENSET 1



ON DUTY SELECTED
ENGINE FAIL TO START
LOW ENGINE OIL PRESSURE
HIGH ENGINE TEMPERATURE



**ALARM
WARNING
SHUTDOWN**



**SYSTEM
NOT IN AUTO**



**REMOTE START
INITIATED**



**REVERSE
POWER ALARM**



**GENSET
OVERLOADED**



LOCK

**REMOVE
KEY**

UNLOCK



**ALARM
RESET**

SOLUTIONS



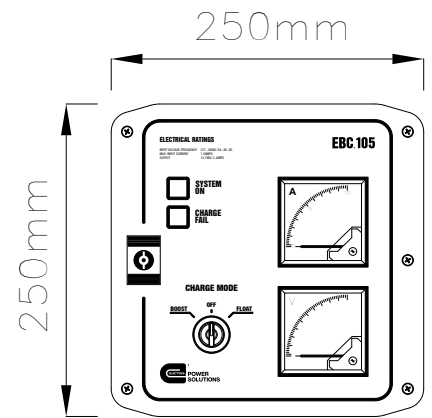
**EMERGENCY
STOP**

EBC Series

AUTOMATIC ENCLOSED BATTERY CHARGERS.



Image for illustration purposes only,
Depending on your application the actual product may vary.



Overall Size: 250x250mm

PRODUCT HIGHLIGHTS

FEATURES

- Constant current / constant voltage.
- Automatic float mode return.
- Low output ripple.
- Reverse polarity, short-circuit and current limiting protection.
- Auto recovery on fault condition removal.
- Cell charge boost and equalizing.
- Power save mode.
- No moving parts – convection cooled.
- Charge fail indicator.
- 80% operating efficiency
- Manual Boost/Float Selection.
- Compatible with all common battery types.

THE BEST WAY TO PROTECT YOUR POWER.

And Protect Your Team.

Our genuine parts are easily accessible, which can reduce customer downtime, improve your responsiveness and provide a competitive advantage.

Structured to help you deliver top-tier service and capture profits, our Parts and Service team provides the parts, people and performance you can count on.

PARTS

Designed to perform under the toughest environmental conditions, Our Genuine Parts are chosen specifically for your generator—and will be available when you need them. They undergo extensive lab and field testing as part of the overall power-system to ensure everything works as expected.

PEOPLE

Our experienced Service and Support team is available to answer your questions. Choosing genuine parts provides you with comprehensive support, training and technical assistance straight from the factory.

- Factory training
- On-site technical support
- One point of contact for all your parts and service needs
- Dedicated after-sales channel support

PERFORMANCE

We continuously invest in better processes that make your job easier, and we're here to support you in decisions that affect your business.

- Inventory management
- Warranty management
- Lead-time strategy



Your Reliable source for advanced and integrated power solutions.





ELECTRONIL POWER SOLUTIONS

ENGINEERING THE FUTURE Since 1995.

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